

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		extension same U-shape\$ same reach same clean\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:25
		extension same linear\$ same curv\$ same ang\$\$	US-PGPUB; USPAT	OR	OFF	2005/11/21 12:43
		S88 same clean\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:40
		S82 and extension or extend\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:04
		"5156191"	US-PGPUB; USPAT	OR	OFF	2005/05/18 11:28
		S33 same brush	US-PGPUB; USPAT	OR	OFF	2006/03/02 15:21
L1	411	(15/22.1,23,28,144.1,144.3,144.4, 145).CCLS.	US-PGPUB	OR	OFF	2006/03/02 15:22
L2	111664	extension and U-shape\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:24
L3	16175	extension and U-shape\$ and reach	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:23
L4	344	3 and curvilinear	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:23

## EAST Search History

L5	44708	extension same U-shape\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:24
L6	1294	extension same U-shape\$ same reach	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:25
L7	36	extension same U-shape\$ same reach same clean	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:25
L8	53	extension same U-shape\$ same reach same (clean or cleaner or cleans or cleaned)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:25
L9	79	extension same U-shape\$ same reach same (clean or cleaner or cleans or cleaned or cleaning)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:26
L10	101	(16/427).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:35
L11	20	10 and U-shaped	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:35
L12	21	10 and U-shape\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:36

## EAST Search History

L13	1170	(16/427,429,436).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:35
L14	146	13 and U-shape\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/02 15:36
S2	1641	(15/22.1,23,28).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/17 12:01
S3	48	S2 and dust\$	US-PGPUB; USPAT	OR	OFF	2005/01/18 13:18
S4	12	("3162876"   "3220039"   "3343192"   "4137588"   "5235716"   "5495632"   "5551114"   "5781995"   "5956791"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:23
S5	8	("6058542").URPN.	USPAT	OR	OFF	2005/01/18 13:24
S6	35	("0729187"   "0933718"   "1007888"   "1215439"   "1482027"   "1958658"   "2211741"   "2282728"   "2567768"   "2671914"   "2799035"   "2875458"   "3072937"   "3216734"   "3260289"   "3585719"   "3876015"   "3978852"   "4949463").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:25
S7	14	("1969549"   "3183538"   "3240966"   "3255637"   "3274631"   "3277358"   "3585669").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:26
S8	24	("4137588").URPN.	USPAT	OR	OFF	2005/01/18 13:30
S9	19	("2583577"   "2749909"   "3164183"   "3618208"   "3780435"   "4137588"   "5353461"   "5697115"   "5781955"   "5852875"   "5870790"   "6014462"   "6170107"   "D233644").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:32
S10	0	("6295681").URPN.	USPAT	OR	OFF	2005/01/18 13:34
S11	33	("1611874"   "2911660"   "3026552"   "3343192"   "3500490"   "3570038"   "3822432"   "3862461"   "3890984"   "3892004"   "4060871"   "4137588"   "4254526"   "4335481"   "4370771"   "4502176"   "4796321"   "4799280"   "5315729"   "5336330"   "5353461"   "5435036"   "5511269"   "5621941"   "5701625"   "D334287"   "D335770"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:34

## EAST Search History

S12	19	("1792188"   "3293680"   "3570035"   "3688139"   "3828387"   "3932908"   "4131966"   "4202068"   "4217671"   "4344202"   "4759091"   "5074004"   "5211494"   "5289605"   "5353461"   "D259076").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:52
S13	10	("5511269").URPN.	USPAT	OR	OFF	2005/01/18 13:52
S14	16	("3526919"   "3728075"   "4168560"   "4290160"   "4724563"   "4796321"   "5423102"   "5511269"   "5797157"   "5956792"   "6185781"   "6324713"   "D279626"   "D321988").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/01/18 13:53
S15	0	("D482530").URPN.	USPAT	OR	OFF	2005/01/18 13:54
S16	1002	S2 not toothbrush	US-PGPUB; USPAT	OR	OFF	2005/01/18 13:55
S17	959	S16 not tooth adj brush	US-PGPUB; USPAT	OR	OFF	2005/01/18 15:00
S18	2	S17 and feather	US-PGPUB; USPAT	OR	OFF	2005/01/18 13:55
S19	254531	15/144.1,144.3,144.4, "145"	US-PGPUB; USPAT	OR	OFF	2005/01/18 15:00
S20	2754	(15/144.1,144.3,144.4,145).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/17 12:06
S21	1730	(15/144.1,144.3,144.4,145).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/19 09:15
S22	8	((("4956892") or ("4748712") or ("6493903") or ("6360399") or ("5970572") or ("5794303") or ("d259618") or ("5290082"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/01/19 09:37
S23	2513	(15/22.1,23,28).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/17 12:03
S24	1682	(15/22.1,23,28).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/13 16:00
S25	742	S24 and motor	US-PGPUB; USPAT	OR	OFF	2005/05/13 16:19
S26	281	S25 not toothbrush	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:02
S27	1743	(15/144.1,144.3,144.4,145).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/13 17:02
S28	1743	S27	US-PGPUB; USPAT	OR	OFF	2005/05/13 17:02
S29	1718	S28 not S24	US-PGPUB; USPAT	OR	OFF	2005/05/13 17:03

## EAST Search History

S30	1718	S27 not S24	US-PGPUB; USPAT	OR	OFF	2005/05/13 17:03
S31	48	S27 and motor	US-PGPUB; USPAT	OR	OFF	2005/05/13 17:03
S32	120281	"15" and exten\$\$ same handle	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:03
S33	6781	"15"/\$.ccls. and exten\$\$ same handle	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:03
S34	3544	S33 and brush	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:04
S35	969143	S34 ans slot or pin or pinion	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:04
S36	646115	S34 and slot or pin or pinion	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:05
S37	1553	S34 and (slot or pin or pinion)	US-PGPUB; USPAT	OR	OFF	2005/05/15 11:05
S38	9	("2624061").URPN.	USPAT	OR	OFF	2005/05/15 12:16
S39	958205	extension same arms same curv\$\$ or angl\$\$	USPAT	OR	OFF	2005/05/15 12:17
S40	7736	extension same arm same (curv\$\$ or angl\$\$)	USPAT	OR	OFF	2005/05/15 12:17
S41	2637	extension adj6 arm same (curv\$\$ or angl\$\$)	USPAT	OR	OFF	2005/05/15 16:23
S42	395	15/144.1	USPAT	OR	OFF	2005/05/15 12:25
S43	3	((("5791006") or ("1609906")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/15 12:25
S44	2	("1609906").URPN.	USPAT	OR	OFF	2005/05/15 12:27
S45	242	(15/144.4).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/15 16:17
S46	242	(15/144.4).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/15 16:17
S47	31	(extension adj6 arm) same pole same (curv\$\$ or angl\$\$)	USPAT	OR	OFF	2005/05/15 16:23
S48	13	("3737187"   "4335485"   "4520527"   "4592797"   "4663796"   "4782632"   "4829719"   "4848037"   "4848818"   "4885876"   "5088147"   "5099539"   "D311318").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/15 16:24
S49	4	("5338128").URPN.	USPAT	OR	OFF	2005/05/15 16:25
S50	1	("5156191").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 11:50

## EAST Search History

S51	997	(15/97.1).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 11:50
S52	698	(15/97.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/18 14:10
S53	217	(15/414).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/18 15:12
S54	631	(15/410).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/18 15:12
S55	613	S54 not S53	US-PGPUB; USPAT	OR	OFF	2005/05/18 15:12
S56	313	(15/377).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 16:22
S57	226	(15/377).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/05/18 16:22
S58	4	("20020182991"   "5289605"   "5347673"   "6499172").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 16:39
S59	0	("6725491").URPN.	USPAT	OR	OFF	2005/05/18 16:39
S60	19	("5231727").URPN.	USPAT	OR	OFF	2005/05/18 16:41
S61	3	("0700642"   "5031363").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 16:41
S62	8	("4965905").URPN.	USPAT	OR	OFF	2005/05/18 16:42
S63	19	("4188682"   "4791694"   "4899414"   "4965905"   "5593312"   "5595532"   "5642008"   "5678272"   "5830047"   "6168507"   "6290587"   "D254231"   "D264797"   "D295253"   "D312714"   "D313094"   "D391698"   "D392778"   "D414666").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 16:42
S64	0	("D474087").URPN.	USPAT	OR	OFF	2005/05/18 16:44
S65	1	d474087	USPAT	OR	OFF	2005/05/18 16:45
S66	1	d476119	USPAT	OR	OFF	2005/05/18 16:47
S67	29	("3733634"   "4188682"   "4791694"   "4899414"   "4965905"   "5593312"   "5595532"   "5642008"   "5678272"   "5830047"   "6168507"   "6290587"   "D205758"   "D254231"   "D264797"   "D273079"   "D283590"   "D312714"   "D313094"   "D332734"   "D378002"   "D391698"   "D392778"   "D414666"   "D418264"   "D418642"   "D443397"   "D465074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/18 16:45
S68	0	("D476119").URPN.	USPAT	OR	OFF	2005/05/18 16:45

## EAST Search History

S69	1	"6725491"	US-PGPUB; USPAT	OR	OFF	2005/05/18 16:48
S70	1	"1394564"	US-PGPUB; USPAT	OR	OFF	2005/05/19 07:43
S71	39	((("1394564") or ("2597971") or ("3952239") or ("4330967") or ("4747733") or ("4879847") or ("4954026") or ("4976173") or ("5027910") or ("5038523") or ("5074081") or ("5349785") or ("5375289") or ("5564969") or ("5794300") or ("5813805") or ("5954458") or ("6656626") or ("6290587") or ("6168507") or ("5830047") or ("5678272") or ("5642008") or ("5595532") or ("5593312") or ("4965905") or ("4899414") or ("4791694") or ("4188682") or ("d414466") or ("d392778") or ("d397698") or ("d313094") or ("d312714") or ("d295253") or ("d264797") or ("d254231"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/19 07:48
S72	1	("6725491").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/19 07:53
S73	795	(16/429,427,436).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/03/02 15:34
S74	44	("3423781").URPN.	USPAT	OR	OFF	2005/05/19 08:21
S75	25	("0721480"   "0977158"   "2716043"   "3215006"   "3276087"   "3423781"   "3430496"   "3841973"   "4033618"   "4202067"   "4986207"   "5188332"   "5251496"   "5312536"   "5373748"   "5395188"   "5396178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/19 09:14
S76	96	(15/144.3).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/19 09:15
S77	19	("2315054"   "2477666"   "2635274"   "2744279"   "3332103"   "3568237"   "3935611"   "4002164"   "4060047"   "4117566"   "4813094"   "5044040"   "5560746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/05/19 09:21
S78	2718	(15/22.1,23,28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:02

## EAST Search History

S79	2716	S78 not toothbrush	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:02
S80	1727	S78 not toothbrush	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:02
S81	288	S80 and motor	US-PGPUB; USPAT	OR	OFF	2005/11/17 12:03
S82	675	S80 and motor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:03
S83	4693281	S82 and extension or extend or extending	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:04
S84	539	S82 and (extension or extend or extending or extended)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:07
S85	1	S82 and (extension or extend or extending or extended)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:06
S86	2805	(15/144.1,144.3,144.4,145).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/17 12:06
S87	79	S86 and motor and (extension or extend or extending or extended)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:39



## EAST Search History

S88	10150	extension same (handle or arm) same slot same pin same motor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:41
S89	911627	S88 same clean or cleaning or cleaner	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:41
S90	499	S88 same (clean or cleaning or cleaner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:42
S91	1694	extension adj3 (handle or arm) same motor	US-PGPUB; USPAT	OR	ON	2005/11/17 12:43
S92	17	S91 same clean	US-PGPUB; USPAT	OR	ON	2005/11/17 12:41
S93	49	S91 same (clean or cleaning or cleaner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/17 12:42
S94	0	motor and extension adj3 (handle or arm) same linear same curvilinear same angle\$	US-PGPUB; USPAT	OR	ON	2005/11/17 12:44
S95	0	extension adj3 (handle or arm) same linear same curvilinear same angle\$	US-PGPUB; USPAT	OR	ON	2005/11/17 12:44
S96	150	extension adj3 (handle or arm) and linear and curvilinear and\ angle\$	US-PGPUB; USPAT	OR	ON	2005/11/17 12:45
S97	114	extension adj3 (handle or arm) and linear and curvilinear and angle\$	US-PGPUB; USPAT	OR	ON	2005/11/17 12:47
S98	114	(extension adj3 (handle or arm)) and linear and curvilinear and angle\$	US-PGPUB; USPAT	OR	ON	2005/11/17 14:22
S99	1308	rubber same vulcanizing same metal	US-PGPUB; USPAT	OR	OFF	2005/11/17 14:23
S10 0	12	rubber same vulcanizing same metal same bar	US-PGPUB; USPAT	OR	OFF	2005/11/17 14:23
S10 1	5	"2167524"	US-PGPUB; USPAT	OR	OFF	2005/11/18 16:12
S10 2	0	("2167524").URPN.	USPAT	OR	OFF	2005/11/18 16:13

## EAST Search History

S10 3	12	"843590"	USPAT	OR	OFF	2005/11/18 16:13
S10 4	16	"843590"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/18 16:14
S10 5	2	("0843590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/18 16:14
S10 6	8	("843590").URPN.	USPAT	OR	OFF	2005/11/18 16:14
S10 7	10	"5823592"	USPAT	OR	OFF	2005/11/18 16:14
S10 8	9	("5823592").URPN.	USPAT	OR	OFF	2005/11/18 16:15
S10 9	25	("0721480"   "0977158"   "2716043"   "3215006"   "3276087"   "3423781"   "3430496"   "3841973"   "4033618"   "4202067"   "4986207"   "5188332"   "5251496"   "5312536"   "5373748"   "5395188"   "5396178").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/18 16:15
S11 0	9	("2624061").URPN.	USPAT	OR	OFF	2005/11/18 16:23
S11 1	6	"5338128"	USPAT	OR	OFF	2005/11/18 16:23
S11 2	4	("5338128").URPN.	USPAT	OR	OFF	2005/11/18 16:23
S11 3	13	("3737187"   "4335485"   "4520527"   "4592797"   "4663796"   "4782632"   "4829719"   "4848037"   "4848818"   "4885876"   "5088147"   "5099539"   "D311318").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/11/18 16:23
S11 4	12	extension same linear same curvilinear same angular	US-PGPUB; USPAT	OR	OFF	2005/11/21 12:43
S11 5	2	extension same linear same curvilinear same angled	US-PGPUB; USPAT	OR	OFF	2005/11/21 12:43
S11 6	12	extension same linear\$ same curv\$ same (angle or angular or angled) same handle	US-PGPUB; USPAT	OR	OFF	2005/11/21 12:44